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**Control system for turbine driven by blast furnace throat gas - includes  
computer for optimum prodn. of electric energy (SW 22.1.79)**

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Number of Countries: 007 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
FR 2395316	A	19790223				197913	B
SE 7707166	A	19790122				197913	
US 4192489	A	19800311				198012	
GB 1576044	A	19801001				198040	
CA 1109123	A	19810915				198142	
JP 54028956	A	19790303				198601	
JP 85054481	B	19851130				198601	
IT 1078336	B	19850508				198603	

Priority Applications (No Type Date): FR 7719008 A 19770621

Abstract (Basic): FR 2395316 A

The turbine is fitted with a control diaphragm and a stop diaphragm; and the turbine is connected in parallel with a set of valves controlling the flow of the throat gas. The turbine drives an electric generator fitted with an electrically controlled air cooling fan. An oil pump is used to start the turbine and generator.

A store contg. standard ref. values feeds signals (S ref) into a controller adjusting the speed(Sa) of the turbine via diaphragms. A gauge measures the pressure of the throat gas and is connected to valves and controller and a switch can stop the generator. sensors are fitted at numerous points in the plant and are connected to computer for the fully automatic operation of the turbine in synchronisation with the blast furnace.

Provide max. prodn. of electrical energy without imparting optimum operation of the furnace.